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2/3, AB/2 (Item 2 from file: 349)

00560645

PEPTIDES RESPONSIVE TO ANTIBODIES AGAINST A CONSENSUS PEPTIDE OF THE CS4-CFA/I FAMILY PROTEINS

PEPTIDES SENSIBLES A DES ANTICORPS DIRIGES CONTRE UN PEPTIDE CONSENSUS DES PROTEINES DE LA FAMILLE C54-CFA/I

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 9805348 A1 19980212

Application: WO 97US13476 19970801 (PCT/ WO US9713476)

Priority Application: US 9623076 19960802; US 9623145 19960805

Designated States: CA; JP; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Publication Language: English

Fulltext Word Count: 3790

English Abstract

This invention relates to amino acid sequences from within a consensus peptide of the formula: VEKNITVTASVDPTIDLLQADGSALPSAVALTYSPA (Seq. &1). Eight mer peptides from within the consensus peptide were tested against an antibody raised to the consensus peptide. Studies relating to antibody raised to denatured proteins from the natural organisms producing the family of proteins were also useful and showed particular value of some sequences. A sequence of the formula ASVDPTIDLLQA (Seq. &2) was identified thereby. An enlarge sequence of the formula TVTASVDPTIDLLQAD (Seq. &3) is also especially interesting as are intermediate sequences such as sequences VTASVDPTIDLLQAD (Seq. &4), TASVDPTIDLLQAD (Seq. &5), and TASVDPTIDLLQA (Seq. &6) as being binding sites for antibodies raised to the denatured proteins.

French Abstract

L'invention concerne des sequences d'acides amines provenant d'un peptide consensus de la formule: VEKNITVTASVDPTIDLLQADGSALPSAVALTYSPA (Seq. &1). On a essaye huit peptides mer provenant du peptide consensus et diriges contre un anticorps dirigé contre le peptide consensus. Des études relatives à un anticorps dirigé contre des protéines dénaturées, provenant d'organismes naturels produisant la famille de protéines, ont été également utiles et ont montré la valeur particulière de certaines séquences. On a identifié ainsi une séquence de la formule ASVDPTIDLLQA (Seq. &2). Une séquence agrandie de la formule TVTASVDPTIDLLQAD (Seq. &3) s'est révélée particulièrement intéressante, de même que des séquences intermédiaires, telles que VTASVDPTIDLLQAD (Seq. &4), TASVDPTIDLLQAD (Seq. &5), et TASVDPTIDLLQA (Seq. &6), car elles constituent des sites de fixation d'anticorps dirigés contre les protéines dénaturées.

2/3,AB/3 (Item 1 from file: 624)

00936372

Department of the Army, U.S. Government

Biotechnology Newswatch May 4, 1998 ; Pg 9 ; Vol. 15, No. 20

Journal Code: BIO ISSN: 0275-3687

Section Heading: PATENT SECTION: EUROPEAN PATENTS

Word Count: 109 *Full text available in Formats 5, 7 and 9*

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00936372

Department of the Army, U.S. Government

Biotechnology Newswatch May 4, 1998 ; Pg 9 ; Vol. 15, No. 20

Journal Code: BIO ISSN: 0275-3687

Section Heading: PATENT SECTION: EUROPEAN PATENTS

Word Count: 109

Text:

WO 98/05687 Published: February 12, 1998; Filed: August 1, 1997;
Priority: August 2, 1996

Department of the Army, U.S. Government, Fort Detrick, MC (US); Virion
Systems Incorporated, Rockville, MD (US)

Monoclonal antibody which agglutinates E. Coli having the CS4-CFA/I
family protein.

A monoclonal antibody to a consensus peptide of the formula:
VEKNITVTASVDPTTDLLQADGSALP-SAVALTYSPA. The monoclonal antibody of the
invention binds exclusively to the sequence SAVALTYS and has use as a
diagnostic and for prophylaxis against illness arising from E. coli which
produce the CS4-CFA/I family of proteins and for treatment of disease
arising therefrom.

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Company Names (DIALOG Generated): Department of the Army ; Virion Systems

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1/3, AB/1 (Item 1 from file: 349)

00560856

MONOCLONAL ANTIBODY WHICH AGGLUTINATES *E. COLI* HAVING THE CS4-CFA/I FAMILY PROTEIN

ANTICORPS MONOCLONAL PERMETTANT D'AGGLUTINER *E. COLI* POSSEDEANT UNE PROTEINE DE LA FAMILLE CS4-CFA/I

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 9805687 A1 19980212

Application: WO 97US13477 19970801 (PCT/ WO US9713477)

Priority Application: US 9623075 19960802

Designated States: CA; JP; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 2678

English Abstract

A monoclonal antibody to a consensus peptide of the formula:

VEKNITVTASVDPTIDLLQADGSALPSAVALTYS. The monoclonal antibody of the invention binds exclusively to the sequence SAVALTYS and has use as a diagnostic and for prophylaxis against illness arising from *E. coli* which produce the CS4-CFA/I family of proteins and for treatment of disease arising therefrom.

French Abstract

Anticorps monoclonal d'un peptide consensus de la formule:

VEKNITVTASVDPTIDLLQADGSALPSAVALTYS. L'anticorps monoclonal de l'invention se fixe exclusivement à la séquence SAVALTYS. Il sert pour le diagnostic et la prophylaxie des maladies provoquées par *E. Coli* engendrant la famille de protéines CS4-CFA/I, et pour le traitement des maladies qui en sont issues.

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1/3,AB/2 (Item 1 from file: 357)

0223661 DBA Accession No.: 98-05258 PATENT

**Monoclonal antibody agglutinating Escherichia coli with CS4/CFA/I family protein
- produced by hybridoma cell culture, used for infection diagnosis and diarrhea therapy**

Author: Cassels F; Lees A; Schuman R

Corporate Source: Fort Derrick, MD, USA; Rockville, MD, USA.

Patent Assignee: U.S.Army; Virion-Systems 1998

Patent Number: WO 9805687 **Patent Date:** 980212 **WPI Accession No.:** 98-145553 (9813)

Priority Application Number: US 23075 **Application Date:** 960802

National Application Number: WO 97US13477 **Application Date:** 970801

Language: English

Abstract: A new monoclonal antibody (MAb) that binds exclusively to a defined protein sequence and agglutinates Escherichia coli bearing CS4/CFA/I family protein, is produced by hybridoma 96-109FE8 IH11. The MAb may be used to detect enterotoxigenic E. coli by contacting cultures of the microorganism with the MAb and detecting MAb/CS4-CFA/I protein binding complexes (claimed). The MAb may also be included in compositions with a carrier appropriate for application to bacteria-containing growth media, optionally with a tag, e.g. a fluorescing agent or colometric tag to assist complex identification. The new MAb may be included in a composition with a pharmaceutically acceptable carrier, especially saline, for treating or prophylaxing against illness arising from infection with bacteria bearing the CS4-CFA/I protein, such as diahorrea. (14pp)

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